APPENDIX A

PLANTS FOR THE PRODUCTION OF SYNTHETIC AND RECLAIMED RUBBER

A. Synthetic Rubber

All known synthetic rubber plants in areas of the Free World are listed, with production by plant if known.

In such countries as Sweden and Italy, where plant facilities exist for the production of synthetic rubber but where no rubber is presently being produced, capacities as known are given.

For the United States, it is noted that feed stock plants (plants which produce styrene or butadiene for final processing by co-polymer plants) are also listed. As can be seen by this list, all the styrene used as feed stock is made in only six plants, and destruction of any one of these plants would reduce by that much the output of GR-S (butadiene-styrens rubber) until the unit could be restored to production. Butyl rubber, important for manufacture of inner tubes, is produced in only two plants, and neoprene in but one plant. Thus styrene, butyl, and neoprene, all of which are highly important to the rubber industry of the United States, appear to be the most vulnerable points in the synthetic rubber industry.

B. Reclaimed Rubber

Locations and names of installations for the reclaiming of rubber are given, where known, for all countries. Information on such facilities is not regularly reported, and cannot be considered for certain countries (for example, France) which reportedly has considerable capacity for reclaimed rubber, but for which no data on locations of plants or actual output are available.

Reclaimed rubber is a very valuable raw material and serves as an important factor in enabling countries to increase rubber fabrication at relatively
small cost in comparison to synthetic and natural rubber. The facilities for
reclaiming are not difficult or expensive to provide and production can be
increased or decreased as desired with relative case.

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APPENDIX A.

SYNTHATIC RUBBER PLANTS IN THE FREE WORLD AREA DURING 1951

- Location	Name of Plant	Cosion Capacity A	Production b/
NORTH AMERICA			207.443
CANADA			62,393
Sarnia, Onterio	Polymer Corporation		62 ₀ 293
United States			845.155
Corolyper plants (GR	S and N)		
Alcrem, Chio	Firstens Tire & Rubber Co. *Firestons *Goodrich *Goodyear	25,000 2,000 9,000 9,000	
Batem Rouge, La.	Goodyear Synthetic Rubber Cor Copolymer Corp.	43,000	
Baytean, Towns Bouton, Mass Borger, Texas Houston, Towns,	"U.S. Rubber Co. General Tire & Rubber Co. "Dewny & Almy Phillips Chemical Co. Goodyear Synthetic Rubber Cor	7,000 37,000 3,000 54,000	
Institute, W. Va., Louisville, Ky. Lake Charles, Lo.	B.F. Goodrich Chamical Co. *B.F. Goodrich Co. Kontucky Synthetic Rubber Cor Firestone Tire & Rubber Co.	113,000 15,000	
Midland, Mich. Hauge-tuck, Conn. Port Noches, Toxas	Des Chemical Co. U.S. Rubber Co. B.F. Goodrich Co. U.S. Rubber Co.	3,000 25,000 76,000 76,000	
Torvence, Calif.	Midland Rubber Corp.	76,000 808,000	712,147
Neopreme plants		•	,
Louisville, Ky.	*E.I. DuPont de Nemours & Co.	<u>60,000</u> 60,000	58 ₀ 907
Butvl clause			
Batom Rouge, La. Baytown, Texas	Esso Standard Oil Co. Humble Oil & Refining Co.	40,000)** <u>40,000</u>) 80,000	7 4, 10 5
Total, V.S.	synthetic rubber capacity	948,000	
<u>Foedstrok ulanta</u> (in <u>Patadious</u>	short tons)		
Baton Rouge, La.	*Esso Standard Oil Co. Copolymer Corp.	20,000 22,000	
Baytown, Texas Berger, Texas Robuta, Pa. Landerthia, Ka	Humble Oil & Refining Co. Phillips Chemical Co. Koppers Co., The. Cities Service Refining	45,000 60,000 105,000*** 62,000	
Louisville, Ky. Midland, Mich. Fort Neches, Toxas Toxas City, Toxas Houston, Toxas	Carbide & Carbon Chemicals Co. **Plow Chemical Co. **Roches Butane Products Co. **Carbide & Carbon Chemical Corp. Sinclair Rubber, Inc. **Carbide & Carbon Chemical Corp.	2,000 168,000 p. 6,000 78,000	
Torrance, Calif.	Shell Chemical Corp. & Standar Otl Co. of California	rd _ <u>45_000</u> 0 753,000	683 ₉ 000

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APPENDIX A. (Cent'd)

Location	Name of Plant	Design Capacity (in long	Production b/
Styrone			
Institute, W. Va. Kobuta, Pa. Midland, Mich. Texas City, Texas Torrance, Calif. Velasco, Texas	"Carbide & Carbon Chemical Com "Koppers Co., Inc. "Dow Chemical Co. "Monsanto Chemical Co. Dow Chemical Co. "Dow Chemical Co.	79. 15,000 50,000 36,000 65,000 57,000 100,000 323,000	
Westvan Europe			522
FRANCE	Planted		None
GERMANI, WEST			929
nils Leverkuson	Chemische Herke Huels Fayerweke		
TIMIA	•		None
Forrara Terni	Pirolli & I. R. I.	12,000 N.A.	
SAKDEN			None
lagavik Stockvik Uppsala		acc 800 Exporimental	•

GRAND TOTAL

908 377

a. Design capacity is given where available to show possible production. b. Production is given to show actual output. In the U. S. information is not available as to actual production by plant.

Polymerization plants and food stock plants are given where known. The use of oil extenders and the cold rubber process of synthetic rubber production has increased plant capacities. The polymerication capacities have been increased in the last two years, and the capacities, as shown, represent 1952 information.

d. Includes 656,874 tons OR-S and 15,333 tons N-type rubber.

Privately owned facilities, all copolymer plants include N and GR-S types of rubber

Increased to 90,000 tons capacity. ##

In addition, there is one unit of approximately 35,000 ST/Yr capacity in stendby at this plant.

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APPENDIX A. (Cont'd) Part B.

RECIAIMED RUBBER PLANTS IN THE FREE WORLD AREA DURING 1951

Location	Name of Plant	Design Cometty b/	Production C/
NORTH AMERICA			372087
CANADA			5.077
Montreal.	Dominion Rubber Co.*		
* Subsidiary of U.S. Rub	ber Co. and the only importan	t producer in the o	ountry.
CUBA			7 7.
Mentanzas			777
United States			355.91 3
Akron, Chic Akron, Chic Akron, Chic New Brunswick, N.J., Naugatuck, Conn., Buffalo, N.Y. Trentom, N.J., Butler, N.J., E.St. Louis, Ill., Memphis, Tenn., Cadesm, Ala., Los Angeles, Calif., Tuscalcosa, Ala., Los Angeles, Calif., Erie, Fa., Chicago, Ill., Denver, Colorado Buffalo, N.Y., Barbarton, Chic Fassaic, N. J., Painesville, Chic	Goedyear Tire & Rubber Co. Xylos Rubber Company Laurie Rubber Reclaiming Co. Naugatuck Chemical Co. U.S. Rubber Realaiming Co. Nearpara Rubber Co. Pequamos Rubber Co. Midwest Rubber Redlaiming Co. Firestone Tire & Rubber Co. Goodyear Tire & Rubber Co. Goodyear Tire & Rubber Co. B.F. Goodrich Co. B.F. Goodrich Co. Continental Rubber Co. Gates Rubber Co. Seiberling Rubber Co. Seiberling Rubber Co. Ohio Rubber Co.	o	
SOUTH AMERICA			5,073
ARGENT INA	,		1.000
Buence Aires	Goodyear Naumaticos SA	1, 350	
Note: There are several small quantities	. small rubber goods manufactu of reclaimed rubber.	rers vho produce	
BRAZIL			3,862
Santo Andre Hao Paulo	Industria de Pneumaticos Fir Cia Goodyear do Brasil	estons SA	
CHILE			2.5
Santiago	Industria National de Pneu (inga)	
COLOMBIA			
Cali .	Cia Croydan del Pacifico SA		N.A.
	as Auf is		
• *	SECRET		

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APPENDIX Ag (Cont'd)

	Location	Name of Plant	Design Camacity Production (in long tons)
	COSTA RICA		6.1
	GUATEMALA		20
	Guatemala City	Cia Guatemalteca Incatecu SA	
	PERU	,	18
	Lima	Fabrica de Calsado Peruano SA (Bata)	18
,	URUGUAY	•	16k
	Montevideo	(FUNSA) Fabrica Uruguaye de	350
	Montevideo	Neumaticos SA Radesca y Cia	N.A.
	FAR EAST and SOUTH PACIFIE		23,988
	<u>AUSTRALIA</u>		8.606
	Brisbano Melbourne Sydney Sydney	Olympic Tire & Rubber Co., Litt Kenworth Rubber Lid. Ducker Rubber (Aust.) Lid. Seedyser 3);s & Robber Co. (An	
	INDIA		4, 2 , 2
•	Pombay Galcusta Calcusta	Firestone Tire & Rubber Co. of Bata Shoe Company Dumlop Rubber Co. (India)	Pindia Led.
	JAPAN		11,982
	Kobe Kobe Yokohema	Dunlop Rubber Co. (Japan) Ltd Nippon Tire Co. Yokohama Rubber Co.	•
	NEW ZEALAND		<u>1,200</u>
	Auckland Christehurch (Upper Hutt)	Reid Rubber Tire Factory Atlas Rubber Co. Firestone Tire & Rubber Co. Dunlop Rubber Co.	
	EUROPE including ENGLAND		<u>86, 821</u>
	<u>a ustria</u>		<u>1,956</u>
	Wimpassing) Semperit		1,480.8 475.2
	BELG IUM		2,500
	Antwerp Molines Seneffe	Wauters Caoutchouc Recupere SA Caoutchouc & Ebonite	
	DENMARK		300
	Copenhagen Copenhagen	Schinning & Arve Danske Galoche & Gummifabrik	

APPENDIX A. (Cont'd)

Location	Name of Plant Design Capac	ity Production long tons
FINLAND		231.5
Nokia	Soumen Gummitehdas Oy	331.5
FRANCE		N.A.
Colombes	Watteles Regenere	
GERMANY, WEST		27,355
Hamburg-Harburg	Harburger Gummiwaren-Fabrik	3,600
Hamburg	Phoenix AG. Deutsches Gumni-Regenerierwerk Wolfang Krohn & Co.	
Melle-Hannover Mannheim-Rheinau	Meles K.G. Carl Boesch Rhein-Chemi GmbH	
Hannover Hennover	Continental Gummiwerke AG. Vorwork & Sohn	
Hanau-Main	Dunlop Rubber Co.	
GREECE		N.A.
Athens	Aristovoulos Pemtzetakis	
<u>ITALY</u>		2,500
Milano Torino	Pirelli Pirelli	
METHERLANDS		1.600
Hague Haarlem	N.V. Nederlandse B.F. Goedrich Co. N.V. Rubber, Ashest-en Ebenitfabriken	
norway ^{d/}		500
PAKISTAN		100
Karachi	Bata Shoe Company	32
PORTUGAL.		300
Oporto	Manufacture Nacional de Borracha, SARL (MABCR)	
SPA IN		10.000
Aso Bilbao Baroelona	Barakaldo Firestone Hisrania J. Codina Villalonga, Fabrica de Caucho Regenerado Gomas y Amiantos	
Torrelavega	Continental Rubber Co.	
SWEDEN		2,500
Norkoping Trelleberg	Goodyear Tire & Rubber Co. (planned) Tellebergs Gummifabriks	

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APPENDIX A. (Cont'd)

Location	Name of Plant	Design Capacitys/ (in long	Production tons)
SWITZERLAND			150
Altdorf (URI)	Doestwizler		
UNITED KINGDOM			26,723
Birmingham Leyland London Wolverhampton	Dunlop Rubber Ltd. British Tire & Rubber Co. (G Rubber Improving Co. Goodyear Tire & Rubber Co.	ocdrich)	
YUCOSLAVIA			<u>N.A.,</u>
AFRICA			N.A.
SOUTH AFRICA			N.A.
!	GRAND TOTAL		486,969

a. This list of plants producing reclaimed rubber is far from complete. It is noted, however, that most large tire manufacturers also have facilities for reclaiming rubber. The importance of reclaimed rubber production has been greatly ignored in reports achiesing the raw material supply of the rubber industry, and information on such facilities is meagre.

b. Capacity figure of plants and/or of the entire country are given where

available,

c. Production of reclaimed rubber by country (and by plant when available) are given.

d. An additional plant with 1,200 tons p.a. capacity was planned for completion by the end of 1951.

e. There are reported to be 15 factories reclaiming rubber in Alicants alone.

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